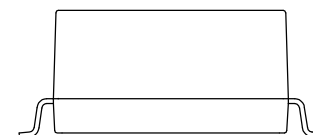
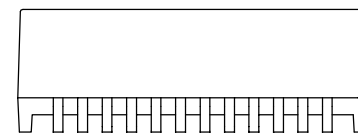
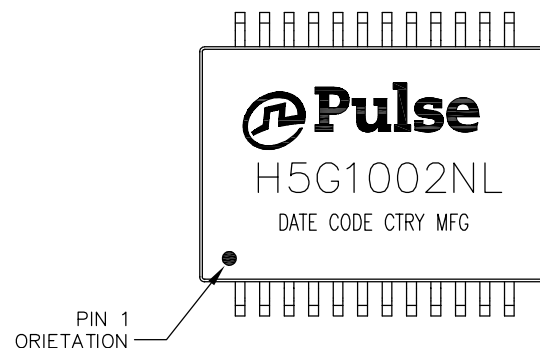


NOTES:

1. ROHS COMPLIANT
2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
3. STORAGE TEMPERATURE: -20°C TO +125°C
4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 250°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 250°C MAXIMUM THROUGH REFLOW SOLDER
5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX TO THE PART NUMBER(i.e H5G1002NL BECOMES H5G1002NLT).

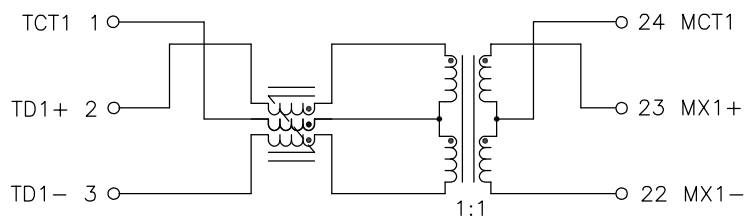


FINAL OUTLINE

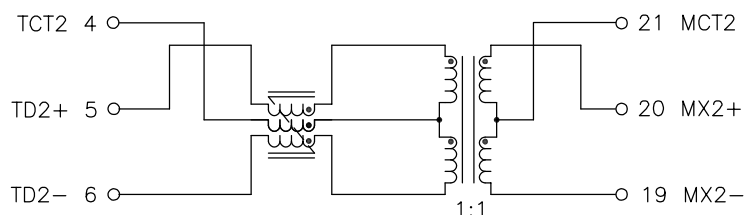
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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,5GPP,1:1,SM,TU	H5G1002NL-X1	PS-2473.001-A	1 OF 3	H5G1002NL	A

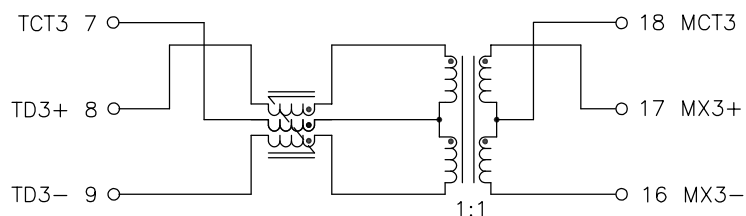
CHANNEL A



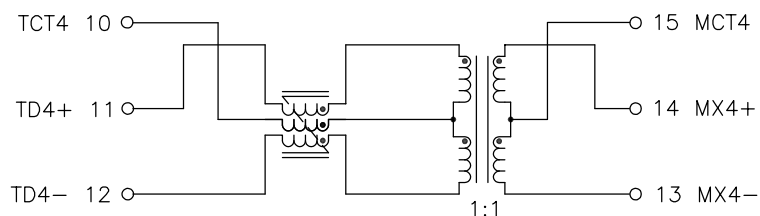
CHANNEL B



CHANNEL C



CHANNEL D



SCHEMATIC

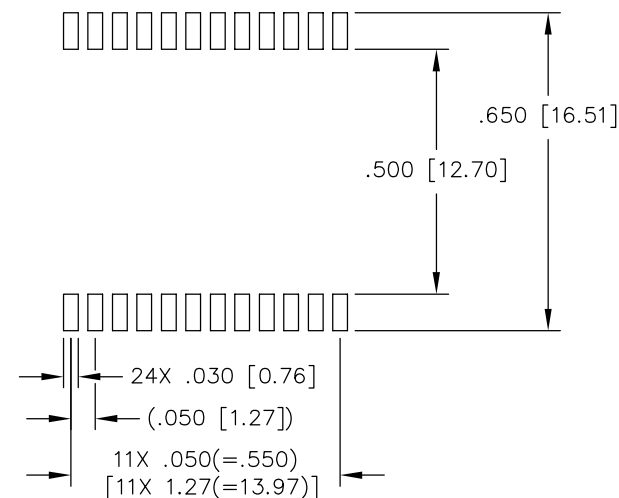
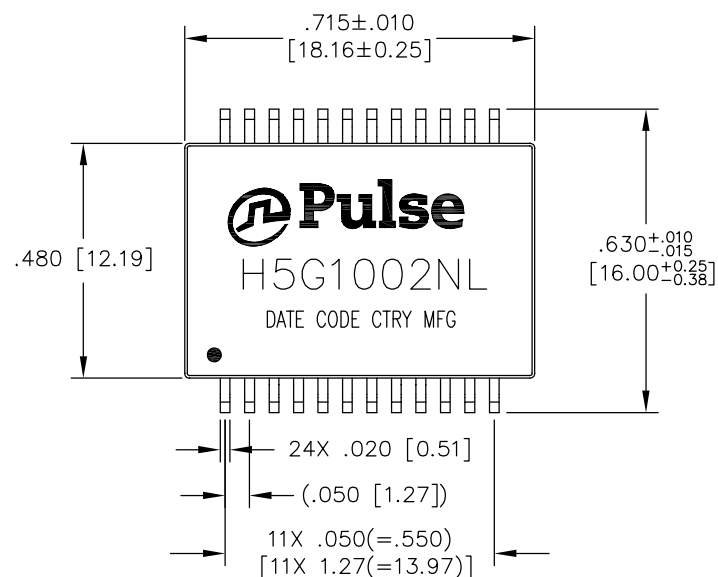
ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS		
OPERATING TEMPERATURE	0°C TO +70°C		
TURNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS (SDD21&SDD12)	1–50 MHz	50–125 MHz	125–250 MHz
	–0.5 dB MAX	–1.0 dB MAX	–1.5 dB MAX
PHY–SIDE RETURN LOSS (SDD11 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–250 MHz	
	–20 dB MIN	–20+15*LOG ₁₀ (f/40) dB MIN	
LINE–SIDE RETURN LOSS (SDD22 – Zref = 100 OHMS ± 1%)	1 MHz–40 MHz	40 MHz–250 MHz	
	–20 dB MIN	–20+15*LOG ₁₀ (f/40) dB MIN	
INDUCTANCE (OCL)	180 uH MIN WITH 0 mA DC BIAS		
	150 uH MIN WITH 10.8 mA DC BIAS		
CROSSTALK, ADJACENT CHANNELS (SDD21 – ADJ.)	1–125 MHz	125–250 MHz	
	–30 dB MIN	–20 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30 MHz–250 MHz		
	–30 dB MIN		
COMM. TO DIFF. REJECTION RATIO (SDC12)	10 MHz–250 MHz		
	–45+f/35 dB MIN		
DC CURRENT CARRING CAPABILITY	720 mA MAX AT 70°C		
INPUT – OUTPUT ISOLATION	1500 VRMS MIN @ 60 SECONDS		

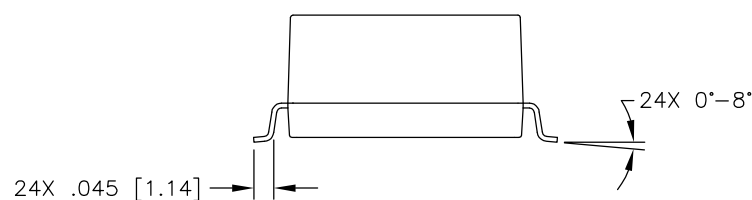
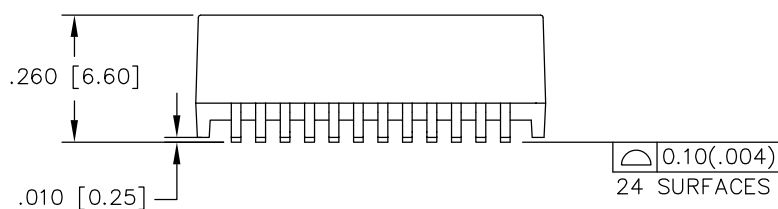
NOTE: f IS FREQUENCY IN MHZ.

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MDL,SIN,5GPP,1:1,SM,TU	H5G1002NL-X1	PS-2473.001-A	2 OF 3	H5G1002NL	A



SUGGESTED LAND PATTERN



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.
.XX= $\pm .01$ [± 0.25]
.XXX= $\pm .005$ [± 0.13]

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,5GPP,1:1,SM,TU	H5G1002NL-X1	PS-2473.001-A	3 OF 3	H5G1002NL	A